

Title (en)

A PRODUCTION LINE AND A METHOD OF SHAPING PROFILES

Title (de)

FERTIGUNGSLINIE UND VERFAHREN ZUM FORMEN VON PROFILLEN

Title (fr)

LIGNE DE PRODUCTION ET PROCÉDÉ DE FORMAGE DE PROFILÉS

Publication

EP 1877205 B1 20141001 (EN)

Application

EP 06733312 A 20060424

Priority

- SE 2006000456 W 20060424
- SE 0500954 A 20050428

Abstract (en)

[origin: WO2006115447A1] Profiles (50) are formed in a production line with a cross-section that varies along their length from a plane metal strip (10) that is unwound from a tape reel (9), whereby edge cutters (14) and a number of roll-forming units (17-24) are used where not only the edge cutters but also the roll-forming units can be displaced individually sideways relative to the strip. The edge cutters (14) and the roll-forming units (17-24) are individually controlled. The formed profile is curved in a curving station integrated into the line, which curving station comprises roller pairs (82, 84; 83, 85) that can be controlled to roll sides of the profile (50) such that they become thinner such that the profile is curved or twisted as it is formed. The roller pairs and the sideways displacement and the angular motion of the roll-forming units are controlled by the same computer program such that the roller pairs follow the sides and such that a line (II) between the axles of one roller pair is held always perpendicular to the surface being rolled.

IPC 8 full level

B21D 5/08 (2006.01); **B21D 11/08** (2006.01)

CPC (source: EP KR SE US)

B21D 5/08 (2013.01 - KR); **B21D 5/083** (2013.01 - EP SE US); **B21D 5/14** (2013.01 - KR); **B21D 11/08** (2013.01 - EP US)

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